

IN THE CLAIMS

This listing of claims will replace all prior versions, and listings, of claims in the application:

Listing of Claims:

1-11. (canceled)

12. (new) An automatic device for demounting a tire (6) from the relative wheel rim (5), comprising, a frame, rotary means (4) for supporting the wheel rim (5) complete with tire (6) associated with said frame (7) a demounting tool (15) with means enabling it to be positioned in a tire bead seeking and gripping position in which the tool is perpendicular to the axis or orientated towards the center of the wheel rim, and in a position for extracting said tire bead from the wheel rim (5), in which the tool is perpendicular to the axis or orientated in the opposite direction, wherein

the intermediate position of said tool is hinged to the end of a bar and one end of said tool is hinged to a connecting rod (16, 20, 25) which at the opposite end is connected to said bar (14) by a lever linkage (21), said bar (14) being connected to means (10) for advancing it and withdrawing it.

13. (new) A device as claimed in claim 12, wherein said connecting rod (16, 20) is of variable length.

14. (new) A device as claimed in claim 13, wherein said connecting rod (16, 20) of variable length enables said tool (15) to be positioned in that seeking position in which it is orientated towards the wheel rim center.

15. (new) A device as claimed in claims 13 or 14, wherein said connecting rod of variable length comprises a cylinder-piston unit (16).

16. (currently amended) A device as claimed in claim 12, wherein said means for advancing and withdrawing said bar (14) comprise a cylinder-piston unit (10).

17. (new) A device as claimed in claim 16, wherein said bar (14) slides within a prolongation (110) of the cylinder of said cylinder-piston unit (10), the rod of said unit (10) being hinged to said bar (14) by a pair of levers (21) which at their opposite end are hinged via a slot (210) to an appendix (22) branching from the prolongation (110) of the cylinder (11).

18. (new) A device as claimed in claim 12, wherein said means for advancing and withdrawing said bar (14) comprise a cylinder-piston unit (10) associated with a

carriage (8) which translates vertically on said frame (7).

19. (new) A device as claimed in claim 18, wherein said carriage (8) is driven in translation by a male-female screw system.

20. (new) A device as claimed in claim 12, wherein said demounting tool (15) presents a hook-shaped lower portion for gripping the bead of the tire (6).